
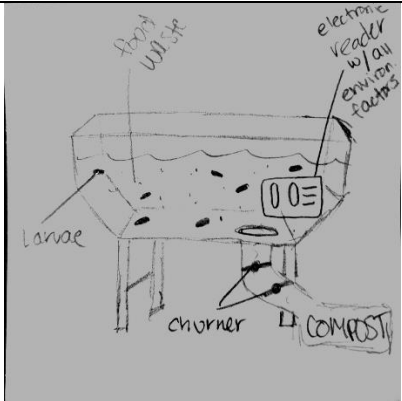


Initial Concept Generation – Ximena Moua

**The ones bolded are shown in photos and links provided

Function #1: Recording data from enclosed fly environment	Photos/Links
<ol style="list-style-type: none"> 1. A small electronic pill to put into the composter to collect data from the environment and transmit to a computer. 2. Create a camera that records the temperature and humidity of the environment 3. Install a sensor within the shed to monitor the three environmental factors (Temp, humidity, CO2) 4. Thermostat style real time data collection for all environmental factors; installed outside of shed 5. Build a see-through composter with all the sensors to track environmental factors and records them. Can be USB accessible to extract data 6. Have someone record data manually - check thermometer, CO2 detector, hygrometer 7. Create a smartwatch app that monitors and records the environmental factors data 8. Build a mini robot that monitors and records the environmental factors 9. Upgrade thermometer, hygrometer, and CO2 sensor to have the ability to collect data 10. Build a baby-monitor style electronic that records all the environmental factors 	<div data-bbox="1060 451 1438 706">  </div> <p data-bbox="1060 747 1858 812">https://www.pelicanwireless.com/portfolio-view/thermostat-with-humidity-co2-ts250h/</p> <div data-bbox="1060 852 1459 1250">  </div>

Function #2: Powering shed's environment	Photos/Sketches
<ol style="list-style-type: none"> 1. To avoid manually turning on the lights at the shed, create a timer that automatically turns on the lights for you for a specific time 2. Create an app that allows you to turn on the heating light, fan, humidifier, and open vent for the flies without manually turning it on 3. Assemble a Rube Goldberg machine that turns on fan, humidifier, lights, and open/close vent 4. Have someone walk to the shed to turn everything on manually 5. Use watermill to power the shed 6. Automated sensor that detects high levels of measurements from environmental factors to turn on/off electronics and open/close vent 7. Install a mini windmill 8. Use telekinesis to manually power shed 9. Use BSF larvae energy to power shed 10. Use fitness machine power from fitness pods and workout center 	<div data-bbox="1073 232 1680 618" data-label="Image"> </div> <div data-bbox="1052 621 1803 725" data-label="Text"> <p>https://scienceworld.scholastic.com/content/dam/classroom-magazines/scienceworld/issues/2019-20/031620/crazy-contraption/SW-031620-CrazyContraptions-Medium1.jpg</p> </div> <div data-bbox="1236 750 1381 1188" data-label="Image"> </div> <div data-bbox="1052 1224 1682 1256" data-label="Text"> <p>https://cuttingedgepower.com/products/2020-mini</p> </div>